## Amitabha Bose

List of Publications by Year in descending order

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AMITARHA ROSE

| #  | Article   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | A biophysical counting mechanism for keeping time. Biological Cybernetics, 2022, 116, 205-218.  | 0.6 | 3         |
| 2  | Beyond the limits of circadian entrainment: Non-24-h sleep-wake disorder, shift work, and social jet<br>lag. Journal of Theoretical Biology, 2022, 545, 111148.   | 0.8 | 5         |
| 3  | Multistability Arising from Synaptic Dynamics. , 2022, , 2109-2117.   |     | 0         |
| 4  | Bifurcations Dynamics of Single Neurons and Small Networks. , 2022, , 443-451.  |     | 0         |
| 5  | A one-dimensional map to study multi-seasonal coffee infestation by the coffee berry borer.<br>Mathematical Biosciences, 2021, 333, 108530.   | 0.9 | 3         |
| 6  | Entrainment Dynamics of Forced Hierarchical Circadian Systems Revealed by 2-Dimensional Maps. SIAM<br>Journal on Applied Dynamical Systems, 2020, 19, 2135-2161.  | 0.7 | 6         |
| 7  | Order-indeterminant event-based maps for learning a beat. Chaos, 2020, 30, 083138.  | 1.0 | 1         |
| 8  | A neuromechanistic model for rhythmic beat generation. PLoS Computational Biology, 2019, 15, e1006450.  | 1.5 | 15        |
| 9  | Short-term synaptic dynamics control the activity phase of neurons in an oscillatory network. ELife, 2019, 8, .   | 2.8 | 7         |
| 10 | Phase-locking and bistability in neuronal networks with synaptic depression. Physica D: Nonlinear<br>Phenomena, 2018, 364, 8-21.  | 1.3 | 7         |
| 11 | Reentrainment of the circadian pacemaker during jet lag: East-west asymmetry and the effects of north-south travel. Journal of Theoretical Biology, 2018, 437, 261-285.   | 0.8 | 51        |
| 12 | A balance of outward and linear inward ionic currents is required for generation of slow-wave oscillations. Journal of Neurophysiology, 2017, 118, 1092-1104.   | 0.9 | 19        |
| 13 | Collective dynamics in heterogeneous networks of neuronal cellular automata. Physica A: Statistical<br>Mechanics and Its Applications, 2017, 487, 111-124.  | 1.2 | 1         |
| 14 | Entrainment Maps. Journal of Biological Rhythms, 2016, 31, 598-616.   | 1.4 | 23        |
| 15 | The role of electrical coupling in generating and modulating oscillations in a neuronal network.<br>Mathematical Biosciences, 2016, 278, 11-21.   | 0.9 | 4         |
| 16 | Strategies to Maximize Burst Lengths in Rhythmic Anti-Phase Activity of Networks with Reciprocal<br>Inhibition. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2015,<br>25, 1540004. | 0.7 | 0         |
| 17 | The role of linear and voltage-dependent ionic currents in the generation of slow wave oscillations.<br>Journal of Computational Neuroscience, 2014, 37, 229-242.   | 0.6 | 20        |
| 18 | Effects of Synaptic Plasticity on Phase and Period Locking in a Network of Two Oscillatory Neurons.<br>Journal of Mathematical Neuroscience, 2014, 4, 8.  | 2.4 | 9         |

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|----|--|-----|-----------|
| 19 | Multistability Arising from Synaptic Dynamics. , 2014, , 1-11.   |     | 1         |
| 20 | Bifurcations Dynamics of Single Neurons and Small Networks. , 2014, , 1-10.  |     | 1         |
| 21 | A Mathematical Model towards Understanding the Mechanism of Neuronal Regulation of<br>Wake-NREMS-REMS States. PLoS ONE, 2012, 7, e42059.                       | 1.1 | 46        |
| 22 | Excitable Nodes on Random Graphs: Relating Dynamics to Network Structure. SIAM Journal on Applied<br>Dynamical Systems, 2011, 10, 987-1012.                    | 0.7 | 7         |
| 23 | Co-existent activity patterns in inhibitory neuronal networks with short-term synaptic depression.<br>Journal of Theoretical Biology, 2011, 272, 42-54.        | 0.8 | 10        |
| 24 | Using feed-forward networks to infer the activity of feed-back neuronal networks. BMC<br>Neuroscience, 2010, 11, .   | 0.8 | 0         |
| 25 | Multistability of clustered states in a globally inhibitory network. Physica D: Nonlinear Phenomena, 2009, 238, 253-263.                                       | 1.3 | 19        |
| 26 | The Influence of the A-Current on the Dynamics of an Oscillator-Follower Inhibitory Network. SIAM<br>Journal on Applied Dynamical Systems, 2009, 8, 1564-1590. | 0.7 | 11        |
| 27 | Maintaining phase of the crustacean tri-phasic pyloric rhythm. Journal of Mathematical Biology, 2008, 57, 161-181.   | 0.8 | 19        |
| 28 | Predicting the activity phase of a follower neuron with A-current in an inhibitory network.<br>Biological Cybernetics, 2008, 99, 171-184.                      | 0.6 | 6         |
| 29 | Maintaining phase of the tri-phasic crab pyloric rhythm. BMC Neuroscience, 2007, 8, .  | 0.8 | 0         |
| 30 | Combining synaptic and cellular resonance in a feed-forward neuronal network. Neurocomputing, 2007, 70, 2041-2045.   | 3.5 | 17        |
| 31 | Capturing the bursting dynamics of a two-cell inhibitory network using a one-dimensional map.<br>Journal of Computational Neuroscience, 2007, 23, 169-187.     | 0.6 | 19        |
| 32 | The Effects of Varying the Timing of Inputs on a Neural Oscillator. SIAM Journal on Applied Dynamical Systems, 2006, 5, 108-139.                               | 0.7 | 9         |
| 33 | The geometry of neuronal recruitment. Physica D: Nonlinear Phenomena, 2006, 221, 37-57.  | 1.3 | 8         |
| 34 | BURSTING IN 2-COMPARTMENT NEURONS: A CASE STUDY OF THE PINSKY-RINZEL MODEL. , 2005, , 123-144.   |     | 3         |
| 35 | The effect of modulatory neuronal input on gastric mill frequency. Neurocomputing, 2005, 65-66, 623-631.   | 3.5 | 1         |
| 36 | Two-oscillator model of ventilatory rhythmogenesis in the frog. Neurocomputing, 2005, 65-66, 751-757.  | 3.5 | 12        |

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|----|---|-----|-----------|
| 37 | The Activity Phase of Postsynaptic Neurons in a Simplified Rhythmic Network. Journal of Computational Neuroscience, 2004, 17, 245-261.                    | 0.6 | 24        |
| 38 | Localized activity patterns in excitatory neuronal networks. Network: Computation in Neural Systems, 2004, 15, 133-158.                                   | 2.2 | 10        |
| 39 | Localized activity patterns in excitatory neuronal networks. Network: Computation in Neural Systems, 2004, 15, 133-58.                                    | 2.2 | 2         |
| 40 | Contribution of Synaptic Depression to Phase Maintenance in a Model Rhythmic Network. Journal of Neurophysiology, 2003, 90, 3513-3528.                    | 0.9 | 50        |
| 41 | Transitions between different synchronous firing modes using synaptic depression. Neurocomputing, 2002, 44-46, 61-67.                                     | 3.5 | 1         |
| 42 | Bistable Oscillations Arising from Synaptic Depression. SIAM Journal on Applied Mathematics, 2001, 62, 706-727.   | 0.8 | 36        |
| 43 | Neural Mechanisms for Generating Rate and Temporal Codes in Model CA3 Pyramidal Cells. Journal of Neurophysiology, 2001, 85, 2432-2445.                   | 0.9 | 32        |
| 44 | Phase precession and phase-locking of hippocampal pyramidal cells. Hippocampus, 2001, 11, 204-215.  | 0.9 | 33        |
| 45 | Control of network output by synaptic depression. Neurocomputing, 2001, 38-40, 781-787.   | 3.5 | 1         |
| 46 | Regulating firing rate of networks of pyramidal cells. Neurocomputing, 2001, 38-40, 497-504.  | 3.5 | 2         |
| 47 | Synchrony and frequency regulation by synaptic delay in networks of self-inhibiting neurons.<br>Neurocomputing, 2001, 38-40, 505-513.                     | 3.5 | 5         |
| 48 | Role of synaptic delay in organizing the behavior of networks of self-inhibiting neurons. Physical<br>Review E, 2001, 63, 021908.                         | 0.8 | 23        |
| 49 | Almost-synchronous solutions for mutually coupled excitatory neurons. Physica D: Nonlinear<br>Phenomena, 2000, 140, 69-94.                                | 1.3 | 31        |
| 50 | Hippocampal place cells and the generation of a temporal code. Neurocomputing, 2000, 32-33, 225-234.  | 3.5 | 1         |
| 51 | A temporal mechanism for generating the phase precession of hippocampal place cells. Journal of<br>Computational Neuroscience, 2000, 9, 5-30.             | 0.6 | 71        |
| 52 | A Geometric Approach to Singularly Perturbed Nonlocal Reaction-Diffusion Equations. SIAM Journal on Mathematical Analysis, 2000, 31, 431-454.             | 0.9 | 11        |
| 53 | Large amplitude solutions of spatially non-homogeneous non-local reaction diffusion equations.<br>Methods and Applications of Analysis, 2000, 7, 295-312. | 0.1 | 7         |
| 54 | Stability of localized structures in non-local reaction-diffusion equations. Methods and Applications of Analysis, 1998, 5, 351-366.                      | 0.1 | 15        |

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|----|--|-----|-----------|
| 55 | Functional reorganization in thalamocortical networks: Transition between spindling and delta sleep<br>rhythms. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93,<br>15417-15422. | 3.3 | 64        |
| 56 | Symmetric and Antisymmetric Pulses in Parallel Coupled Nerve Fibres. SIAM Journal on Applied<br>Mathematics, 1995, 55, 1650-1674.  | 0.8 | 14        |